

Application of computer vision in detecting motorcycle traffic violations

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Abstract: This study focuses on applying computer vision technology to detect specific traffic violations involving motorcycles. The real-world context shows that traffic safety issues are becoming increasingly urgent and need effective solutions. The objective of this research is to build an automatic recognition system to detect traffic regulation violations from camera images. The method combines computer vision theory with experimental deployment on a traffic monitoring system. The expected results will significantly contribute to improving traffic safety, reducing accidents, and enhancing the enforcement effectiveness of authorities.

Keywords: Computer vision, Traffic violation detection, Motorcycle